

GENITOURINARY MEDICINE

Editor: A Mindel

President MSSVD: M Waugh

Hon Sec MSSVD: M Godley

Assistant Editor: C A Carne

Assistant Editor, Abstracts: C Sonnex

G Bird
L Corey
R A Coutinho
B A Evans
D J Jeffries
F Judson
C J N Lacey
J M A Lange

A G Lawrence
A Méheus
R S Pattman
P Piot
M Stanley
D Taylor-Robinson
I V D Weller
L Weström

H Young
A J Zuckerman
H zur Hausen

Editor
British Medical Journal

Technical Editor: Kenneth Till

This *Journal*, founded by the Medical Society for the Study of the Venereal Diseases, publishes original work on the investigation and treatment of genitourinary and allied disorders, and review articles, correspondence, and abstracts.

Advice to authors Papers for publication, which will be accepted on the understanding that they have not been and will not be published elsewhere and are subject to editorial revision, should be sent in duplicate to Dr A Mindel, Academic Department of Genitourinary Medicine, James Pringle House, Middlesex Hospital, London W1N 8AA. All authors must give signed consent to publication. Submitted papers must be accompanied by the following statement, signed by all the authors: "No paper resembling the enclosed article has been or will be published except in *Genitourinary Medicine*. We transfer all copyright ownership to *Genitourinary Medicine*." Manuscripts will only be acknowledged if a stamped addressed postcard or international reply coupon is enclosed. Rejected papers will not be returned. Figures will be returned if requested at the time of submission.

Full details of requirements for manuscripts in the Vancouver style (*BMJ* 1982;284:1766-70) are given in *Uniform requirements for manuscripts submitted to biomedical journals*, available from the Publishing Manager, *British Medical Journal*, BMA House (50p post free). Briefly details are as follows:

(1) *Scripts (including correspondence and book reviews)* must be typewritten on one side of the paper in double spacing with ample margins. Two copies should be sent.

(2) *Each script* should include, in the following order: a brief summary (structured summaries are preferred), typed on a separate sheet, outlining the main observations and conclusions; the text divided into appropriate sections; acknowledgements; references; tables, each on a separate sheet; and legends for illustrations.

(3) *The title of the paper* should be as brief as possible.

(4) *The number of authors* should be kept to the minimum, and only their initials and family names used.

(5) *Only the institution(s)* where work was done by each author should be stated.

(6) *SI units* must be used. If old fashioned units are used, SI units should be given in parentheses or, for tables and figures, a conversion factor given as a footnote.

(7) *Only recognised abbreviations* should be used.

(8) *Acknowledgements* should be limited to workers whose courtesy or help extended beyond their paid work, and supporting organisations.

(9) *Figures* should be numbered in the order in which they are first mentioned in the text. Captions should be typed on a separate sheet. *Diagrams*: use thick, white paper and insert lettering lightly in pencil. *Photographs*: should be marked lightly on the back with the author's name and indicating the top, and should not be attached by paper clips or pins. They should be trimmed to include only the relevant section (and will be reproduced 68 or 145 mm wide) to eliminate the need for reduction. Photomicrographs must have internal scale markers. Radiographs should be submitted as photographic prints, carefully prepared so that they bring out the exact point to be illustrated.

(10) *Tables* should be numbered, have titles, and be typed on separate sheets. Please avoid large tables and use the format which appears in current issues.

(11) *References* should be numbered consecutively the first time they are cited and identified by arabic numbers in the text, tables, and legends to figures. Authors must take full responsibility for the accuracy of their references, and the list should be kept as short as practicable. It should be in the order in which references are first mentioned, and should include (in the following order), *journals*: author's name and initials, title of paper, name of journal (in full or abbreviated according to the list in *Index Medicus*), year of publication, volume number, and first and last page numbers; *books*: author's name and initials, full title, edition, place of publication, publisher, and year of publication. When a chapter in a book is referred to, the name and initials of the author of the chapter, title of the chapter, "In:", name and initials of the editor, and "ed" should precede book title, etc as above. In references to journals or books, when there are seven or more authors the names of the first three should be given followed by "et al." Names of journals no longer published or not in *Index Medicus* should be given in full — for example, *British Journal of Venereal Diseases*.

Proofs Contributors receive one proof, and should read it carefully for printers' errors and check the tables, figures, legends, and any numerical, mathematical, or other scientific expressions. Alterations should be kept to a minimum.

Reprints A limited number of reprints may be ordered at cost from the Publishing Manager when the proofs are returned.

Notice to subscribers This Journal is published bimonthly. The annual subscription rates are £95.00 inland, £101.00 overseas, and \$169 in the USA. Subscribers may pay for their subscriptions by Access, Visa, or American Express by quoting on their orders the credit or charge card preferred, the appropriate personal account number, and the expiry date of the card. Orders should be sent to the Subscriptions Manager, *Genitourinary Medicine*, BMA House, Tavistock Square, London WC1H 9JR. Orders can also be placed locally through any leading subscription agent or bookseller. (For the convenience of readers in the USA, subscription orders, with or without payment, can be sent to: *British Medical Journal*, Box 560B, Kennebunkport, Maine 04046. All inquiries, however, including those regarding air mail rates and single copies already published, should be addressed to the publisher in London.)

Second class postage paid, Rahway NJ Postmaster. Send address changes to: *Genitourinary Medicine* c/o Mercury Airfreight International Ltd Inc, 2323 Randolph Avenue, Avenel, NJ 07001, USA.

Notice to advertisers Applications for advertisement space and for rates should be addressed to the Advertisement Manager, *Genitourinary Medicine*, BMA House, Tavistock Square, London WC1H 9JR.

Copyright © 1991 by *Genitourinary Medicine*. This publication is copyright under the Berne Convention and the International Copyright Convention. All rights reserved. Apart from any relaxations permitted under national copyright laws, no part of this publication may be reproduced, stored in a retrieval system or transmitted in any form or by any means without the prior permission of the copyright owners. Permission is not, however, required to copy abstracts of papers or of articles on condition that a full reference to the source is shown. Multiple copying of the contents of the publication without permission is always illegal.

where sections have been referenced by a speaker). This book will be an invaluable aide to all those wishing to catch up on developments in selected areas of genitourinary medicine. I would strongly recommend that every department makes sure their staff have ready access to a copy.

R PATEL

Sexually Transmitted Diseases. A Textbook of Genito-Urinary Medicine. Edited by G W Csonka, J K Oates (Pp 564; £49.50). London: Bailliere-Tindall, 1990. ISBN 0-7020-1258-0.

This multi-author text with its eye catching cover adds another alternative to the growing number of books on sexually transmitted diseases.

The book is clearly laid out. There are 42 chapters under 13 section headings covering a wide range of allied topics as well as the standard sexually transmitted diseases. Genital malignancies, pregnancy and contraception have designated chapters and I was particularly pleased to see the problem of child abuse and rape including its medicolegal aspects addressed.

The two editors are eminent genitourinary physicians and a wealth of clinical experience is demonstrated in their chapter contributions. Unfortunately this text runs into problems with having multiple authors. Some chapters are well written, illustrated and referenced whereas others are not of such good quality. There is some repetition of material, as acknowledged by the editors, but there is also inconsistency. Appendix 2 entitled a "simplified approach for STD" has the fashionable algorithmic approach which is often far from simple. The treatment schedules in this and Appendix 3 do not always agree with those in the chapters, which is very confusing. There is little information on the practical techniques of history and specimen taking and the microbiological aspects of some conditions are hardly discussed. However there are some masterpieces. The section on "non-specific" genital infection and chapters on viral hepatitis, AIDS and genital dermatoses deserve special credit.

This book recently received a tough

review in the British Medical Journal. Although there are some deficiencies and I would say it is not my choice for the definitive specialist reference text its great advantage over competitors from the United States and Scotland is that it is extremely readable. It may be more appropriate for those in post-graduate training at diploma level and other physicians with an interest in the subject than the specialist genitourinary physician. Undergraduates may find smaller alternatives serve their purpose and pocket better than this £49.50 text. Nevertheless this book once purchased is less likely to collect (or show) the dust than many others.

A J ROBINSON

limited to 20 and the closing date is 28 June, 1991. Interested members should contact:

The Secretary,
Dr D A Hicks
Department of GU Medicine,
Royal Hallamshire Hospital,
Glossop Road,
Sheffield S10 2JF.
or
The President,
Dr A B Alawattagama,
University dept. of G U Medicine,
Royal Hospital,
Prescot Street,
Liverpool S7 8XP.

NOTICE

Northern Genito-Urinary Physicians Colposcopy Group

The Second Theoretical and Practical Course in Colposcopy for Genito-Urinary Physicians will be held 4-6 October, 1991, Clatterbridge Hospital on the Wirral.

A wide range of topics in colposcopy will be covered including: Aetiology, pathology, diagnosis and treatment of CIN, screening programmes, basic colposcopy, setting up a colposcopy service in GUM and confidentiality. There will be treatment demonstrations with the CO₂ laser, loop diathermy, cold coagulator, etc (not on patients).

Course fee £275 will include all meals including the Society Banquet in Thornton Hall. The accompanying guest fee is £75 which includes two nights accommodation, bed and breakfast and evening meal with Society Banquet. Numbers are strictly

CURRENT PUBLICATIONS

Selected titles from recent reports published worldwide are arranged in the following sections:

Gonorrhoea
Chlamydia
Pelvic inflammatory disease
Candidiasis
Bacterial vaginosis
Trichomoniasis
Syphilis and other treponematoses
Herpes simplex virus
Human papillomavirus infection
Cervical cytology and colposcopy
Other sexually transmitted diseases
Public health and social aspects
Microbiology and Immunology
Dermatology
Miscellaneous

Gonorrhoea

Heterosexual gonorrhoea in central Sydney—implications for HIV control
B DONOVAN, MD BEK, AM PETHEBRIDGE, MJ NELSON, *Med J Aust* 1991;154:175.

Does rectal gonorrhoea reflect unsafe sex

DR TOMLINSON, PD FRENCH, JRW HARRIS, DE MERCEY, *Lancet* 1991;337:501.

Resurgent gonorrhoea in homosexual men

MA WAUGH, *Lancet* 1991;337:375.

Gonorrhoea in women prostitutes—clinical data and auxotypes, serovars, plasmid contents of PPNG and susceptibility profiles

F VAZQUEZ, V PALACIO, JA VAZQUEZ, S BERRON, A GONZALEZ, JJ LLANEZA, *Sex Transm Dis* 1991;18:5.

Gonococcal arthritis caused by penicillinase-producing strains of *Neisseria-gonorrhoeae*

K STEWART, M CARLSON, AM SEGAL, CS WHITE, *Arthritis Rheum* 1991;34:245.

Iron acquisition and the pathogenesis of meningococcal and gonococcal disease

JPM VANPUTTEN, *Med Microbiol Immunol* 1991;179:289.

Laboratory detection of ciprofloxacin resistant *Neisseria-gonorrhoeae*

A TURNER, AE JEPHCOTT, KR GOUGH, *J Clin Pathol* 1991;44:169.

Efficacy trial of a parenteral gonococcal pilus vaccine in men

JW BOSLEGO, EC TRAMONT, RC CHUNG, ET AL, *Vaccine* 1991;9:154.

Evaluation of ofloxacin in the treatment of uncomplicated gonorrhoea

BL SMITH, MC CUMMINGS, JM COVINO, S BENES, K DRAFT, WM MCCORMACK, *Sex Transm Dis* 1991;18:18.

Multicenter study of a single 500-mg dose of cefotaxime for treatment of uncomplicated gonorrhoea

FN JUDSON, LJ ERON, FB LUTZ, KH RAND, PO TENNICAN, WJ MOGABGAB, *Sex Transm Dis* 1991;18:41.

Susceptibility of *Neisseria-gonorrhoeae* to cefpodoxime—determination of Mics and Disk diffusion zone diameters

T FEKETE, J WOODWELL, KR CUNDY, *Antimicrob Agents Chemother* 1991;35:497.

In vitro activity of an antiseptic chlorquinaldol against *Neisseria gonorrhoeae* and *Chlamydia trachomatis*, (in french)

I CORRIHONS, B DUTILH, C BEBEAR, *Pathologie Biologie* 1991;39:136.

Immediate hypersensitivity reaction to single-dose parenteral ceftriaxone therapy for gonorrhoea

PA ZISHKA, JM DOUGLAS, *Sex Transm Dis* 1991;18:26.

***Neisseria gonorrhoeae* colonises the genital tract of oestradiol-treated germ-free female mice**

D TAYLOR ROBINSON, PM FURR, CM HETHERINGTON, *Microbial Pathogen* 1991;9:369.

Chlamydia

Unsuspected *Chlamydia trachomatis* infection in heterosexual men attending a sexually transmitted disease clinic—evaluation of risk factors and screening methods

CAM RIETMEIJER, FN JUDSON, MB VANHENS BROEK, JM EHRET, JM DOUGLAS, *Sex Transm Dis* 1991;18:28.

Genital infection with *Chlamydia trachomatis* in patients with chlamydial conjunctivitis—unexplained results

K STENBERG, PA MARDH, *Sex Transm Dis* 1991;18:1.

Diagnosis and prevalence of persistent *Chlamydia* infection in infertile women—tissue culture, direct antigen detection and serology

H THEJIS, G HELMER, J GNARPE, G LARSSON, O LUNDKVIST, A VICTOR, *Fert Steril* 1991;55:304.

Randomized trial to compare 7-day and 21-day tetracycline regimens in the prevention of recurrence of infection with *Chlamydia trachomatis*

BP KATZ, VA CAINE, BE BATTEIGER, RB STONE, *Sex Transm Dis* 1991;18:36.

Comparison of different methods for the detection of antibodies to *Chlamydia trachomatis* in human sera
T NICHTERLEIN, RD RECKNAGEL, H BRUNNEMANN, J WEHR, KH VOGT, E STRAUPE, ZBL Bakt-Int J Med Microbiol 1991;27:390.

Immune response in chlamydial conjunctivitis among neonates and adults with special reference to tear IgA
B HERRMANN, K STENBERG, PA MARDH, *APMIS* 1991;99:69.

Resolution of chlamydial genital infection with antigen-specific lymphocyte-T lines

KH RAMSEY, RG RANK, *Infect Immun* 1991;59:135.

Protective immunity in pig-tailed macaques after cervical infection with *Chlamydia trachomatis*
P WOLNERHANSEN, DL PATTON, KK HOLMES, *Sex Transm Dis* 1991;18:21.

Roxithromycin treatment of mouse chlamydia salpingitis and protective effect on fertility

J ZANA, M MUFFATJOLY, D THOMAS, J ORFILA, J SALATBAROUX, JJ POCIDALO, *Antimicrob Agents Chemother* 1991;35:430.

Pelvic Inflammatory Disease

Pelvic inflammatory disease—research directions in the 1990s
JN WASSERHEIT, *Sex Transm Dis* 1991;18:46.

The intrauterine device and pelvic inflammatory disease—the Women's Health Study

RA KRONMAL, CW WHITNEY, SD MUMFORD, *J Clin Epidemiol* 1991;44:109.

Measures of sexual behaviour and the risk of pelvic inflammatory disease
NC LEE, GL RUBIN, DA GRIMES, *Obstet Gynecol* 1991;77:425.

Combination antimicrobial therapy in the treatment of acute pelvic inflammatory disease

DV LANDERS, P WOLNERHANSEN, J PAAVONEN, ET AL. *Am J Obstet Gynecol* 1991;164:849.

Candidiasis

Adherence and receptor relationships of *Candida albicans*

RA CALDERONE, PC BRAUN, *Microbiol Rev* 1991;55:1.

Enhancement of germ tube formation in *Candida albicans* by β -endorphin

SS WITKIN, A KALOKLEIN, *Am J Obstet Gynecol* 1991;164:177.

Evaluation of the dipeptide and oligopeptide permeases of *Candida albicans* as uptake routes for synthetic anticandidal agents

DA SHALLOW, KJ BARRETTBEE, JW PAYNE, *Fems Microbiol Lett* 1991;79:9.

Bacterial vaginosis

Amoxicillin treatment of bacterial vaginosis during pregnancy

P DUFF, ML LEE, SL HILLIER, LM HERD, MA KROHN, DA ESCHENBACH, *Obstet Gynecol* 1991;77:431.

Clue cells in predicting infections after abdominal hysterectomy

PG LARSSON, JJ PLATZCHRISTENSEN, U FORSUM, C PAHLSON, *Obstet Gynecol* 1991;77:450.

Trichomoniasis

Molecular probe for identification of *Trichomonas vaginalis* DNA

S RUBINO, R MURESU, P RAPPELLI, PL FIORI, P RIZZU, G ERRE, P CAPPUCCINELLI, *J Clin Microbiol* 1991;29:702.

Correlation of zymodeme patterns, virulence and drug sensitivity of *Trichomonas vaginalis* isolates from women

H VOHRA, P SHARMA, BA SOFI, I GUPTA, NK GANGULY, RC MAHAJAN, N MALLA, *Indian J Med Res A* 1991;93:37.

Syphilis and other treponematoses

Seronegative secondary syphilis in a patient with AIDS—identification of *Treponema pallidum* in biopsy specimen

G TIKJOB, M RUSSEL, CS PETERSEN, J GERSTOFT, T KOBAYASI, *J Am Acad Dermatol* 1991;24:506.

Characteristics of patients with syphilis attending Baltimore STD clinics—multiple high-risk subgroups and interactions with human immunodeficiency virus infection

CM HUTCHINSON, AM ROMPALO, CA REICHART, EW HOOK, *Arch Intern Med* 1991;151:511.

New case definition for congenital syphilis reporting

P ZENKER, *Sex Transm Dis* 1991;18:44.

Specific immunofluorescence staining of *Treponema pallidum* in smears and tissues

F ITO, EF HUNTER, RW GEORGE, BL SWISHER, SA LARSEN, *J Clin Microbiol* 1991;29:444.

Yaws, an endemic treponematoses reconsidered in the HIV era

GT NOORDHOEK, JDA VANEMBDEN, *Eur J Clin Microbiol Infect Dis* 1991;10:6.

Yaws in West-Sumatra—clinical manifestations, serological findings and characterisation of new *Treponema* isolates by DNA probes

GT NOORDHOEK, HJH ENGELKENS, J JUDANARSO, J VANDERSTEEK, GN AELBERS, JJA VANDERSLUIS, JDA VANEMBDEN, E STOLZ, *Eur J Clin Microbiol Infect Dis* 1991;10:12.

Herpes simplex virus

Prolonged continuous acyclovir treatment of normal adults with frequently recurring genital herpes simplex virus infection

LG KAPLOWITZ, D BAKER, L GELB, ET AL, *JAMA* 1991;265:747.

Oral acyclovir therapy of recurrent herpes simplex virus type-2 infection of the hand

MJ GILL, HE BRYANT, *Antimicrob Agents Chemother* 1991;35:382.

Application of polymerase chain reaction assays to studies of herpes simplex virus latency

EM CANTIN, W LANGE, H OPENSHAW, *Intervirology* 1991;32:93.

Retention of nonlinear viral DNA during herpes simplex virus latency in vitro

CM PRESTON, J RUSSELL, *Intervirology* 1991;32:69.

Role of herpes simplex virus thymidine kinase expression in viral pathogenesis and latency

RB TENSER, *Intervirology* 1991;32:76.

Detection and characterization of latent HSV RNA by in situ and northern blot hybridization in guinea pigs

RL BURKE, K HARTOG, KD CROEN, JM OSTROVE, *Virology* 1991;181:793.

Role of latency-associated transcript in herpes simplex virus infection

YA NSIAH, F RAPP, *Intervirology* 1991;32:101.

Functional heterogeneity among herpes simplex virus-specific human CD4+ T-cells

M YASUKAWA, A INATSUKI, T HORIUCHI, Y KOBAYASHI, *J Immunol* 1991;146:1341.

Comparison of standard culture methods, a shell vial assay, and a DNA probe for the detection of herpes simplex virus

LA SEAL, PS TOYAMA, KM FLEET, KS LERUD, SR HETH, AL MOORMAN, JC WOODS, RB HILL, *J Clin Microbiol* 1991;29:650.

Native herpes simplex virus glycoprotein-D vaccine—immunogenicity and protection in animal models

EH MISHKIN, JR FAHEY, Y KINO, RJ KLEIN, AS ABRAMOVITZ, SJ MENTO, *Vaccine* 1991;9:147.

Seroactive recombinant herpes simplex virus type-2-specific glycoprotein-G

DL PARKES, CM CMITH, JM ROSE, J BRANDIS, SR COATES, *J Clin Microbiol* 1991;29:778.

Seroepidemiology of herpes simplex virus and restriction endonuclease cleavage analysis of herpes simplex virus type-2 in Okinawa

H YOSHITAKE, T IWAMASA, Y MAKINO, M FUKUDA, *Acta Pathol Japonica* 1991;41:24.

Human papillomavirus infection

Detection of human papillomavirus DNA in anal intraepithelial neoplasia and anal cancer

JM PALEFSKY, EA HOLLY, J GONZALES, J BERLINE, DK AHN, JS GREENSPAN, *Cancer Res* 1991;51L:1014.

Human papillomavirus infection of the male diagnosed by Southern-blot hybridization and polymerase chain reaction—comparison between urethra samples and penile biopsy samples

A KATAOKA, U CLAESSON, BG HANSSON, M ERIKSSON, E LINDH, *J Med Virol* 1991;33:159.

Possible etiological heterogeneity of vulvar intraepithelial neoplasia—a correlation of pathological characteristics with human papillomavirus detection by in situ hybridization and polymerase chain reaction

JS PARK, RW JONES, MR MCLEAN, JL CURRIE, JD WOODRUFF, KV SHAH, RJ KURMAN, *Cancer* 1991;67:1599.

Bowenoid papulosis

RA SCHWARTZ, CK JANNIGER, *J Am Acad Dermatol* 1991;24:261.

Diagnosis of child sexual abuse in children with genital warts

LT GUTMAN, M HERMANGIDDENS, NS PROSE, *Am J Dis Child* 1991;145:126.

The increased frequency of cervical dysplasia-neoplasia in women infected with the human immunodeficiency virus is related to the degree of immunosuppression

A SCHAFER, W FRIEDMANN, M MIELKE, B SCHWARTLANDER, MA KOCH, *Am J Obstet Gynecol* 1991;164:593.

Papillomavirus DNA and prognosis in cervical cancer

BR ROSE, CH THOMPSON, YE COSSART, PE ELLIOT, MHN TATTERSALL, *Lancet* 1991; 337:489.

Human papillomavirus DNA as a possible index of invasiveness in female genital tract carcinomas

ML MARCANTE, A VENUTI, *Eur J Cancer* 1991;27:187.

The effect of beta-carotene on the regression and progression of cervical dysplasia—a clinical experiment

HCW DEVET, PG KNIPSCHILD, D WILLEBRAND, HJA SCHOUTEN, F STURMANS, *J Clin Epidemiol* 1991;44:273.

Cancer of the cervix—prospects for immunological control

DH DAVIES, GAJ MCINDOE, BM CHAIN, *Int J Exp Pathol* 1991;72:239.

Detection of human papillomavirus (HPV) DNA in oral squamous cell carcinomas by in situ hybridization and polymerase chain reaction

FJ CHANG, S SYRJANEN, J NUUTINEN, KJ KARJA, K SYRJANEN, *Arch Dermatol Res* 1991;282:493.

Cytokeratin pattern in normal and HPV infected oral mucosa in women with genital HPV infections

J KELLOKOSKI, S SYRJANEN, P TOSI, M CINTORINO, P LEONCINI, K SYRJANEN, *J Oral Pathol Med* 1991;20:26.

Short-term systemic recombinant interferon-gamma treatment is ineffective in recalcitrant condylomata acuminata

CC ZOUBOULIS, R STADLER, H IKENBERG, CE ORGANOS, *J Am Acad Dermatol* 1991;24:302.

Skin test for HPV type-16 proteins in cervical intraepithelial neoplasia

R HOPFL, M SANDBICHLER, N SEPP, ET AL, *Lancet* 1991;337:373.

Human papillomavirus type-16 and type-33, herpes simplex virus type-2**and other risk factors for cervical cancer in Sichuan-province, China**

HQ PENG, SL LIU, V MANN, T ROHAN, W RAWLS, *Int J Cancer* 1991;47:711.

Simultaneous in situ genotyping and phenotyping of human papillomavirus cervical lesions—comparative sensitivity and specificity

AK GRAHAM, CS HERRINGTON, JO MCGEE, *J Clin Pathol* 1991;44:96.

Comparison of Southern blot hybridization and polymerase chain reaction methods for the detection of human papillomavirus DNA

MH SCHIFFMAN, HM BAUER, AT LORINCZ, MM MANOS, JC BYRNE, AG GLASS, DM CADELL, PM HOWLEY, *J Clin Microbiol* 1991;29:573.

Detection of genital human papillomaviruses by polymerase chain reaction amplification with degenerate nested primers

AL WILLIAMSON, WP RYBICKI, *J Med Virol* 1991;33:165.

Human papillomavirus DNA in cervical intraepithelial neoplasia detected by in situ hybridization

MR CARDILLO, R MARINO, V POZZI, *Eur J Cancer* 1991;27:193.

Detection of HPV DNA in neoplastic and non-neoplastic cervical specimens from Pakistan and Japan by non-isotopic in situ hybridization

K ANWAR, M INUZUKA, T SHIRAISHI, K NAKAKUKI, *Int J Cancer* 1991;47:675.

Human papillomavirus type-6 and type-11 E4 gene products in condyloma acuminata

Y TOMITA, A FUSE, H SEKINE, H SHIRASAWA, B SIMIZU, M SUGIMOTO, S FUNAHASHI, *J Gen Virol* 1991;72:731.

Immunization against human papillomavirus type-16 tumour cells with recombinant vaccinia viruses expressing E6 and E7

G MENEGUZZI, C CERNI, MP KIENY, R LATHE, *Virology* 1991;181:62.

A key DNA-protein interaction determines the function of the 5'URR enhancer in human papillomavirus type-11

KJ AUBORN, BM STEINBERG, *Virology* 1991;181:132.

The induction of cytotoxic T-lymphocyte precursor cells by recombinant vaccinia virus expressing human papillomavirus type-16 L1

J ZHOU, A MCINDOE, H DAVIES, XY SUN, K CRAWFORD, *Virology* 1991;181:203.

Differences in transformation activity between HPV-18 and HPV-16 map to the viral LCR-E6-E7 region

LL VILLA, R SCHLEGEL, *Virology* 1991;181:374.

Two strains of human keratinocytes transfected with HPV 16 DNA—comparison with the normal parental cells

FP XU, PA GORMAN, FM WATT, *Carcinogenesis* 1991;12:277.

Oligonucleotide primers for DNA amplification of the early region-1, region-6 and region-7 from human papillomavirus type-6, type-11, type-16, type-18, type-31 and type-33

M EVANDER, E BODEN, L BJERSING, E RYLANDER, G WADELL, *Arch Virol* 1991; 116:221.

Characterization of human antibody-reactive epitopes encoded by human papillomavirus type-16 and type-18

SA JANISON, XP YU, JM VALENTINE, DA GALLOWAY, *J Virol* 1991;65:1208.

Relative enhancer activity and transforming potential of authentic human papillomavirus type-6 genomes from benign and malignant lesions

A FARR, H WANG, MS KASHER, R ROMAN, *J Gen Virol* 1991;72:519.

Epithelial cells immortalized by human papillomaviruses have premalignant characteristics in organotypic culture

RA BLANTON, N PEREZREYES, DT MERRICK, JK MCDUGALL, *Am J Pathol* 1991;138:673.

A negative regulatory element in the human papillomavirus type-16 genome acts at the level of late messenger RNA stability

IM KENNEDY, JK HADDOW, JB CLEMENTS, *J Virol* 1991;65:2093.

Expression of the human papillomavirus-E7 oncogene during cell transformation is sufficient to induce susceptibility to lysis by activated macrophages

L BANKS, F MOREAU, K VOUSDEN, D PIM, G MATLASHEWSKI, *J Immunol* 1991;146:2037.

Cervical cytology and colposcopy

Improved endocervical sampling with the cytobrush

A CHALVARDJIAN, WG DEMARCHI, V BELL, R NISHIKAWA, *Can Med Assoc J* 1991; 144:313.

Comparison of spatula and nonspatula methods for cervical sampling

R RAMMOUKINIA, I ANAGNOSTOPOULOU, M GOMOUA, *Acta Cytol* 1991;35:69.

Comparison of cytobrush sampling, spatula sampling and combined cytobrush-spatula sampling of the uterine cervix

F BUNTINX, ME BOON, S BECK, JA KNOTTNERUS, GGM ESSED, *Acta Cytol* 1991;35:64.

Cervical smears following laser treatment—comparison of cervix brush versus cytobrush-Ayre spatula sampling

A SZAREWSKI, J CUZICK, A SINGER, *Acta Cytol* 1991;35:76.

Use of cytobrush for cervical sampling after cryotherapy

MS HOFFMAN, LW GORDY, D CAVANAGH, *Acta Cytol* 1991;35:79.

Endocervical cells and smear sample reliability

C LAVERTY, J THURLOE, *Lancet* 1991;337:741.

False-negative Papanicolaou smears from women with cancerous and pre-cancerous lesions of the uterine cervix

S PAIRWUTI, *Acta Cytol* 1991;35:40.

Analysis of cervical smears obtained within three years of the diagnosis of invasive cervical cancer

GB KRISTENSEN, KD SKYGGEJERB, B HOLUND, K HOLM, MK HANSEN, *Acta Cytol* 1991;35:47.

Comparative study of cytology and punch biopsy in cervical intraepithelial neoplasia during pregnancy—a preliminary report

M KASHIMURA, Y MATSUURA, M SHINDHARA, S BABA, K OBARA, H FUJIWARA, H SATO, *Acta Cytol* 1991;35:100.

False-positive and false-negative proficiency test results in cytology

GK NAGY, DN COLLINS, *Acta Cytol* 1991;35:3.

The validation of cervical cytology—sensitivity, specificity and predictive values

HJ SOOST, HJ LANGE, W LEHMACHER, B RUFFINGKULLMANN, *Acta Cytol* 1991;35:8.

Computerized reporting and follow-up of gynecologic cytology

RD ALLER, R FRENCH, SE MITCHELL, B GONDOS, *Acta Cytol* 1991;35:15.

Information, discrimination and divergence in cytology, 2, total discrimination as a measure of performance

T OKAGAKI, D ZELTERMAN, *Acta Cytol* 1991;35:25.

Information, discrimination and divergence in cytology, 3, optimization of classification of Papanicolaou smears

T OKAGAKI, M FUJIMURA, D ZELTERMAN, *Acta Cytol* 1991;35:30.

Information, discrimination and divergence in cytology, 4, quality control in diagnostic cytology

T OKAGAKI, M FUJIMURA, DC BROOKER, L MCINTOSH, D ZELTERMAN, *Acta Cytol* 1991;35:35.

Cervicovaginal cytology in an indigent population—comparison of results for 1964, 1981 and 1989

MJ COSTA, C GRIMES, E TACKETT, ZM NAIB, *Acta Cytol* 1991;35:51.

Prevalence of Psammoma bodies in Papanicolaou-stained cervicovaginal smears

SB KERN, *Acta Cytol* 1991;35:81.

Significance of anucleated squames in Papanicolaou-stained cervicovaginal smears.

SB KERN, *Acta Cytol* 1991;35:89.

Other sexually transmitted diseases

The development of specific rRNA-derived oligonucleotide probes for Haemophilus ducreyi, the causative agent of chancroid

R ROSSAU, M DUHAMEL, G JANNES, JL DECOURT, H VANHEUVERSWEYN, *J Gen Microbiol* 1991; 137:277.

Cytomegalovirus infection in sexually active adolescents

YM SOHN, MK OH, KB BALCAREK, GA CLOUD, RF PASS, *J Infect Dis* 1991;163:460.

Public health and social aspects

The challenge of limiting the spread of human immunodeficiency virus by controlling other sexually transmitted diseases

PK KIRBY, T MUNYAO, J KREISS, KK HOLMES, *Arch Dermatol* 1991;127:237.

Determinants of condom use among French homosexuals with multiple partners

JP MOATTI, N BAJOS, JP DURBEC, C MENARD, C SERRAND, *Am J Public Health* 1991;81:106.

Microbiology and Immunology

Antepartum cultures for Ureaplasma urealyticum are not useful in predicting pregnancy outcome

JC CAREY, WC BLACKWELDER, RP NUGENT, ET AL, *Am J Obstet Gynecol* 1991;164:728.

Development and evaluation of the polymerase chain reaction to detect Mycoplasma genitalium

HM PALMER, CB GILROY, PM FURR, D TAYLOR ROBINSON, *Fems Microbiol Lett* 1991;77:199.

Langerhans cells and lymphocyte-T subsets in the murine vagina and cervix

MB PARR, EL PARR, *Biol Reprod* 1991;44:491.

Secretory immune responses in the mouse vagina after parenteral or intravaginal immunization with an immunostimulating complex (ISCOM)

MA THAPAR, EL PARR, JJ BOZZOLA, MB PARR, *Vaccine* 1991;9:129.

Dermatology

Is the incidence of Trichomycosis of genital hair underestimated

GG LESTRINGANT, KI QAYAD, S FLETCHER, *J Am Acad Dermatol* 1991;24:297.

Idiopathic vulvar calcinosis

PJT BALFOUR, AC VINCENTI, *Histopathol* 1991;18:183.

Standardized trauma (tape stripping) in human vulvar and forearm skin—effects on transepidermal water loss, capacitance and pH

D WILHELM, P ELSNER, HI MAIBACH, *Acta Derm Vener* 1991;71:123.

Miscellaneous

Pelvic congestion

Editorial, *Lancet* 1991;337:398.

Prostatitis

EM MEARES, *Med Clin N Am* 1991;75:405.

Cervical findings in rape victims

L SLAUGHTER, CRV BROWN, *Am J Obstet Gynecol* 1991;164:528.

Is vaginal douching related to cervical carcinoma

JW GARDNER, KL SCHUMAN, ML SLATTERY, JS SANBORN, TM ABBOTT, JC OVERALL, *Am J Epidemiol* 1991;133:368.

Condom use and breakage among women in a municipal hospital family planning clinic

AE ALBERT, RA HATCHER, W GRAVES, *Contraception* 1991;43:167.

A study of the relationship between testing of condoms and breakage in use

J GEROFI, G SHELLEY, B BONOAN, *Contraception* 1991;43:177.

Sex partner recruitment as risk factor for STD—clustering of risky modes

SO ARAL, V SOSKOLINE, RM JOESOEF, KR OREILLY, *Sex Transm Dis* 1991;18:10.